CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

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T-2654

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To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP Bangalore.

25th March 2015

Dear Sir,

Sub: Testing Materials.

AE-B

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of dry waste collection and sorting centre at Sahakaranagara in ward no. 08, Kodigehalli sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

7/5/15

7/5/15

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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of dry waste collection and sorting centre at Sahakaranagara in ward no. 08, Kodigehalli sub division.
Name of the Agency	Sri. Murali Mohan Y. V.
Date of Testing	25/03/2015
Specific Gravity	**2.63**
Water Absorption in %	**0.31**

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	**100**	100	**Satisfies the requirement**
20	**97.2**	95-100	
10	**34.6**	25-55	
4.75	**8.3**	0-10	

AE-8

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

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7/3/15

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of dry waste collection and sorting centre at Sahakaranagara in ward no. 08, Kodigehalli sub division.
Name of the Agency	Sri. Murali Mohan Y. V.
Date of Testing	25/03/2015
Specific Gravity	**2.57**

Sample	**IS Sieve designation (mm)**	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970**				**Grading Zone**
			ZONE-I	**ZONE-II**	**ZONE-III**	**ZONE-IV**	
River Sand	10	**100**	100	100	100	100	**II**
	4.75	**98.6**	90-100	90-100	90-100	95-100	
	2.36	**84.3**	60-95	75-100	85-100	95-100	
	1.18	**75.2**	30-70	55-90	75-100	90-100	
	0.6	**48.6**	15-34	35-59	60-79	80-100	
	0.3	**23.4**	5-20	8-30	12-40	15-50	
	0.15	**7.2**	0-10	0-10	0-10	0-15	

AE-8

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Lab Incharge
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2) 7/5/15

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TEST REPORT

TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of dry waste collection and sorting centre at Sahakaranagara in ward no. 08, Kodigehalli sub division.
Sample received on	Sri. Murali mohan Y. V.
Date of Testing	25/03/2015
Technical Referance	IS: 2185(Part-I) 2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm²)	Minimum Compressive Strength as per IS: 2185(Part-I) 2005	
			Individual	Avg. of 8 samples
1	40x20x20	4.5	Minimum Compressive Strength of Individual Units	Minimum Average Compressive Strength of Units
2		4.4		
3		4.3	For Grade C (5.0)- 4.0 N/mm² For Grade C (4.0)- 3.2 N/mm²	For Grade C (5.0)- 5.0 N/mm² For Grade C (4.0)- 4.0 N/mm²
4		4.1		
5		4.0		
6		4.2		
7		4.4		
8		4.1		
Average Compressive strength (N/mm²)		**4.3**		

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I) 2005
1	40x20x20	6.74	6.55	When three samples are tested the average water absorption shall not be more than 10% by mass
2		6.68		
3		6.23		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS: 2185(Part-I) 2005
1	40x20x20	1864.2	1863.5	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m^3
2		1863.7		
3		1862.5		

AG-8

Remarks	Satisfies the Requirements.

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of dry waste collection and sorting centre at Sahakaranagara in ward no. 08, Kodigehalli sub division.
Name of the Agency	Sri. Murali Mohan Y. V.
Date of Testing	25/03/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	485	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

AE-8

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

D Exec. Engineer 7/5/15

2] Not as per 7/5